

CASSETTE DECKS

AIWA®

AIWA

POWER

OFF ON

EJECT

PHONE LEVEL

MIN

PHONES

STEREO CASSETTE DECK **XK-009 EXCELIA**

AMTS ANTI MODULATION
TAPE STABILIZER

3 HEAD

PC-OCC PURE AMORPHOUS

0.00

LINEAR COUNTER
RESET MEMORY
ON/OFF & STOP & REWIND

REWIND
REVERSE

RECORD

dbx **DOUBLE DOLBY SYSTEM**
DOLBY B-C NR MX PRO

3 MOTOR/SUPER STABILIZED TENSION DUAL CAPSTAN
TWIN TRANSFORMER POWER SUPPLY

The High Fidelity Standard in Cassette Technology



For over two decades, AIWA has taken a leading position in developing the technology that has brought the cassette format into the realm of true high-fidelity audio. As the first stereo cassette deck manufacturer in Japan, AIWA has created an impressive list of advancements that has given AIWA cassette decks a deserved reputation for genuine value in terms of high quality music reproduction performance.

AIWA offers a complete line of quality cassette decks. EXCELIA models offer impressive high-fidelity performance for today's digital and high-

level analog sound sources. AIWA's high-tech double decks offer a remarkable array of convenience features to complement their superb sound quality. AIWA quick-reverse models offer extended recording and playback times, while AIWA single decks offer the ultimate in sound value. There is an AIWA cassette deck to meet any need, and enhance any system configuration. Audition an AIWA cassette deck soon, and experience the reason why AIWA is the high fidelity standard in cassette technology.

EXCELIA

ANTI MODULATION
TAPE STABILIZER

HEAD

PURE AMORPHOUS

LINEAR COUNTER

0.00

L ■■■■■■

dB -∞ 40 3

R ■■■■■■

MEMORY

LINEAR COUNTER
RESET

MEMORY
ON / OFF ■ STOP ■ REPLAY

◀ REWIND
REVIEW

▶ PLAY



EXCELIA XK-009

The Ultimate in Cassette Performance



The XK-009 opens up a new realm in cassette audio, with several important advances to push sound performance to the highest level possible.

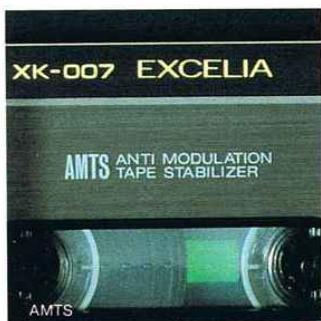
AIWA's original AMTS (anti-modulation tape stabilizer) cuts resonance for clear sound, while the Bias Shield Head Block works during recording to shield the playback head from the detrimental effects of recording flux.

Amorphous heads are used for both recording and playback, with internal coils wound with PC-OCC (pure crystal—Ohno continuous casting) copper wire for optimum conductivity. This translates to greater audio accuracy, particularly in music with delicate passages and subtle transients.

The heavy-duty power supply has dual transformers, one for the mechanism and one for the audio section, to reduce current fluctuations for more stable operation and better overall sound quality. The advanced 3-motor drive mechanism uses dual capstans to create a "closed loop" effect for increased tape-to-head and tape drive stability. These capstans feature AIWA's exclusive micro-grain finish to improve pinchroller adhesion for reduced IM distortion.

To obtain optimum performance from each of the many different tape formulations available, the XK-009 has a manual recording calibration function with built-in 400Hz and 10kHz test tone oscillators which enable the user to "fine tune" bias and recording sensitivity to bring out the best characteristics of any quality tape.

In addition to Dolby B and C noise reduction, the XK-009 features dbx which enables a remarkable 125dB dynamic range to capture the essence of today's high quality digital sound sources. In addition, the Dolby HX Professional system operates during recording for extended high frequency response upon playback, regardless of the type of player. In features, design, and fidelity, the XK-009 represents the ultimate in cassette performance.



EXCELIA XK-007

Advanced Technology for Superb Fidelity



Most of the quality features of the XK-009 are also found on the XK-007 for a correspondingly high level of performance. The heart of the XK-007 is a three-head design using super DX recording and playback heads. The cores are wound with ultra high conductivity PC-OCC copper wire that surpasses the performance of conventional OFC formulations for an improvement in music fidelity. The AIWA exclusive Bias Shield Head Block shields the playback head from recording flux during recording to enable more accurate monitoring from the playback head.

The advanced drive mechanism is of a dual capstan configuration to achieve a "closed loop" effect for better tape-to-tape contact and improved tape drive stability. The capstans feature AIWA's exclusive micro-grain finish which results in greater adhesion between tape and pinchroller for reduced tape drive aberrations and the IM distortion they cause.

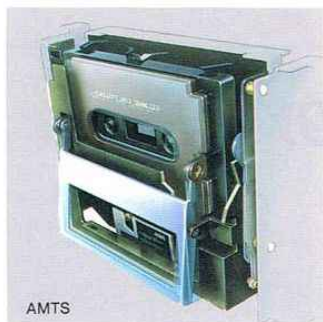
Also featured is AIWA's original AMTS (anti-modulation tape stabilizer), which makes use of special resonance-damping rubber to apply approximately 1kg of force on the cassette shell to damp out resonance for clearer sound reproduction. Dolby HX Professional operates during recording to ensure extended high frequency response with any type tape, regardless of the playback equipment. Also offered is dbx, which achieves an astonishing 120dB of dynamic range for recordings that capture the wide dynamics of digital sound sources. Dolby B and C noise reduction systems are also included for optimum versatility.

The XK-007 also enables manual adjustment of bias and recording sensitivity to achieve flatter frequency response and optimum performance with any number of quality tape formulations available on the market. Proper adjustment of bias enables an improvement in high frequency response, regardless of the tape type used, while correct recording sensitivity adjustment is particularly important in order to obtain the maximum benefits of recording with a noise reduction system.

Advanced features combine with quality construction in the XK-007 to ensure higher fidelity and greater sound satisfaction.

AD-F880

Superior 3-Head Fidelity with Advanced Features



The AD-F880 is a quality 3-head deck with a variety of advanced features for superb high fidelity performance. The 3-head design incorporates AIWA's super DX recording and playback heads which feature cores are wound with PC-OCC (pure copper—Ohno continuous casting) copper wire having ultra high conductivity for greater musical resolution. The die-cast alloy Bias Shield Head Block minimizes interference between the recording and playback heads. AIWA's original micro-grain surfaced dual capstan drive improves tape transport performance, while the AMTS (anti-modulation tape stabilizer) damps out resonance for clearer sound reproduction. The manual recording calibration system and bias fine adjuster allow optimum recording performance with any tape formulation you use. Dolby B and C noise reduction systems work to reduce unwanted tape hiss, while Dolby HX Professional circuitry works during

recording to extend high frequency response with any type tape. Convenience extras like wireless remote control, feather-touch IC logic controls,

an electronic tape counter with memory rewind and repeat, and more make the AD-F880 the kind of deck you can depend on for quality cassette performance.



AD-F780: Also available is the AD-F780, which is identical to the AD-F880 but without wireless remote control.



AD-WX909

The True Double Deck: best for recording, best for playback



AIWA's AD-WX909 combines a dual capstan 3-head recording deck and a quick reverse playback-only deck for the best in recording, and the best in playback.

Quality 3-head Deck 2 for Top Recording Performance

Deck 2 has a 3-head design for superb sound performance. A 3-head deck performs better because the separate heads for recording and playback have been engineered for optimum response in their respective tasks. In conventional two-head decks, the same head is used for both recording and playback (with the other head used for tape erasure), so a compromise must be made in gap dimensions to enable adequate performance in both modes.

The AD-WX909's DX Combination head incorporates a recording head with a wide gap to optimize recording, and a playback head with a narrow gap to optimize playback response. This design

also allows you to monitor tape playback as you record, allowing the adjustment of recording level and bias (CrO₂/normal tapes) for the best-sounding results.

Deck 2 also features dual capstan drive for more stable tape transport. To reduce modulation distortion and wow and flutter, each capstan has AIWA's micro-grain surface for better tape adhesion between the capstan and pinchroller.

AIWA's Original ADMS—Auto De-Magnetizing System

Every time you turn on the AD-WX909, Deck 2's tape heads are demagnetized automatically. During normal use, tape heads gradually become magnetized, degrading sound performance. Experts recommend periodic demagnetizing, but with ADMS, you can avoid this troublesome chore.

Top Quick Reverse Playback from Deck 1
Playback-only Deck 1 features quick 0.3 sec. auto reverse, and a narrow-gap amorphous head for playback with full

sonic detail. Amorphous alloy exhibits outstanding linearity, and remarkable hardness for extra durability.

Plus:

- Dolby HX Professional
- Independent Dolby B/C noise reduction in each deck
- Direct-In gold-plated CD inputs with front panel selector
- Double speed dubbing from tape to tape
- Feather-touch IC logic control
- Independent digital tape counters for each deck
- Bias fine adjuster ($\pm 20\%$)
- Music sensor facility for both decks
- Cue and review
- Auto rec-mute facility (Deck 2)
- Auto tape/source monitor selector
- Blank skip
- Auto tape selector
- Rec/Play timer standby
- Headphone jack with Deck 1/Deck 2 monitor switch

High Performance dbx Double Auto Reverse Deck

The most demanded features have been included in the AD-WX808 for a new double deck standard.

Both decks feature quick 0.3 sec. reverse, with Deck 1 for playback only and Deck 2 for recording and playback. Plus, dubbing from tape to tape at normal or

high speed requires only a single touch of a synchro-dubbing button.

Super dynamic performance from dbx brings cassette performance up to the level of digital audio, enabling approximately 110dB of dynamic range while reducing inherent noise as much as

40dB. Dolby B and C NR are included for greater versatility, while Dolby HX Professional circuitry improves high frequency response with any tape.

Plus:

- Bias fine adjustor ($\pm 20\%$)
- Blank Skip can be selected to skip over blank tape selections of 11 seconds or more.
- Continuous playback. Select this feature for extended playback time; when Deck 1 finishes, Deck 2 starts automatically.
- Feather-touch IC logic control with cue and review in both decks
- Music sensor in both decks
- Independent digital tape counters for both decks
- Auto rec-mute
- Auto tape selector
- Rec/Play timer standby (Deck 2)



AD-WX707

Double Cassette with Advanced Features

Convenient quick reverse recording and playback is yours with AIWA's AD-WX707. Deck 2 is equipped with quick 0.3 sec. reverse for barely audible transitions from one tape side to the other. This enables extended playback and recording. Synchronized tape dubbing requires only

a single touch of the Synchro-dubbing control. Select normal or high-speed operation; recording levels are set automatically for optimum results. Dolby C NR dramatically reduces annoying tape hiss for clearer, more dynamic recordings. Dolby B noise

reduction is also included. A "fine bias" control is also featured to obtain the best performance from Normal and CrO₂ tapes, with a $\pm 20\%$ adjustment range.

Plus:

- Feather-touch IC logic control with cue and review in both decks
- Auto rec-mute (Deck 2)
- Continuous playback. Select this feature for extended playback time; when Deck 1 finishes, Deck 2 starts automatically.
- Tape counter (Deck 2)
- Auto tape selector
- Rec/Play timer standby (Deck 2)



Cassette Dubbing Made Simple

Dubbing from tape to tape is quick and easy with the AD-WX505. Deck 2 is a quality recording and playback deck, while Deck 1 is for playback only. The Synchro-dubbing control starts both decks at the same time, with your choice

of normal or high-speed operation. Recording levels are set automatically for optimum results every time. Quality features assure a high level of performance. Dolby B and C noise reduction cut tape hiss for high fidelity

playback, while extended music enjoyment is yours with selectable continuous playback; when Deck 1 finishes, Deck 2 starts automatically. These features and more make the AD-WX505 a top value in a double cassette deck.



Dolby B and C Noise Reduction

Now a standard feature on the world's finest cassette decks, Dolby C noise reduction dramatically reduces annoying tape hiss for clearer recordings with better dynamic performance. Using metal tape, the signal-to-noise ratio is 78dB (above 5kHz), truly remarkable performance from cassette tape. The widely popular Dolby B noise reduction is also included for full compatibility when playing back tapes recorded in this format or making recordings for use on players equipped with Dolby B circuitry.

Plus:

- Metal (CrO₂)/Normal tape selector
- Tape counter
- Rec/Play timer standby (Deck 2)

AD-WX180

Tape Dubbing in 1/4 the Time

The AD-WX180 features AIWA's ALL-TRAC recording system which enables synchronized tape-to-tape dubbing in just 1/4 the playing time. Dubbing a 90 minute tape takes around 23 minutes, a 60 minute tape only about 15 minutes. How does it work? AIWA's exclusive ALL-TRAC recording system allows simultaneous dubbing of both sides of the tape by

using 4-track tape heads. Just load the master tape in Deck 1 and the blank tape in Deck 2, press the HIGH SPEED A + B button, and your tape dub will be ready in one-fourth the playing time.

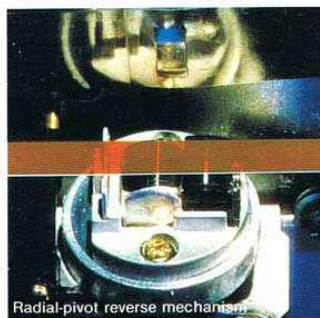


Synchro Dubbing Convenience

The AD-WX180 has three different dubbing modes, with simple one-touch operation of each. Choose high speed ALL-TRAC recording of both tape sides, high speed recording of one tape side, or normal speed dubbing of one tape side. No tricky adjustments or switching from side to side—just insert the tapes and you're all ready to go. Other advanced features include Dolby B and C noise reduction, a fine bias control with $\pm 20\%$ range for optimum performance from Normal and CrO₂ tapes, feather-touch IC logic controls with cue & review, auto tape selector, and more.

Plus:

- Rec-mute facility (Deck 2)
- Continuous playback. Select this feature for extended playback time; when Deck 1 finishes, Deck 2 starts automatically.
- Sliding-type recording level control
- 8-point 2-color LED peak level meter
- Rec/Play timer standby
- Tape counter with reset
- Headphone jack



Radial-pivot reverse mechanism

AD-R470

The Affordable Advanced Deck with Quick 0.3 Sec. Reverse



Nearly imperceptible quick reverse recording and playback is featured in AIWA's advanced AD-R470 cassette deck, which is certain to impress budget-minded audio enthusiasts everywhere. Amazingly quick 0.3 second auto reverse during both recording and playback is assured by AIWA's accurate radial-pivot mechanism, which turns the tape head 180 degrees in the blink of an eye. Feather-touch full logic IC controls respond to a light touch, with Cue & Review for speedy location of desired passages.

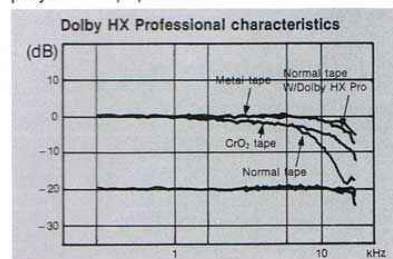
Sound quality features include Dolby HX Professional circuitry, which improves high frequency response regardless of the tape type, and an amorphous tape head for superb sound linearity. (The C, H, and U versions feature AIWA's super hard DX head for a corresponding level of performance.) Plus, Dolby B and C noise reduction reduce tape hiss for clear recordings that capture the dynamic

performance of today's digital and high-level analog sound sources. And, the fine bias control allows $\pm 20\%$ adjustment to obtain the best response from Normal and CrO₂ tapes.

Dolby HX Professional

Not a form of noise reduction, Dolby HX Professional is an advanced method for varying bias according to the characteristics of audio signals for an audible improvement in high frequency response. HX stands for "headroom extension," and it operates during recording to dynamically adjust bias levels in response to the input signals. This contributes to significant improvements in dynamic range, while at the same time making possible "flatter" response in the upper frequencies. Under ordinary conditions, normal-position tapes recorded with Dolby HX Professional actually outperform CrO₂ tapes recorded without it in terms of high frequency response. You'll be

amazed at the sound clarity and absence of distortion. Better yet, since Dolby HX Professional is applied during recording only, the benefits can be heard when playing back these tapes on any playback equipment.



Plus:

- Bi-directional auto rewind playback
- Auto rec-mute
- Auto tape selector: Metal/CrO₂/Normal
- Rec/Play timer standby
- Tape counter with reset
- Headphone jack

AD-F370

Superior AIWA Performance with Remarkable Value

The AD-F370 is a superb 2-head deck with the accent on easy operation and great music fidelity. A host of advanced features make the AD-F370 a remarkable sound value.

Operation is easy thanks to the feather-touch full logic IC controls, which also

enable Cue & Review operations for the speedy location by sound of desired musical passages.

Dolby HX Professional is incorporated for improved high frequency response regardless of tape type, while Dolby B and C noise reduction are also included

to reduce tape hiss. Superb sound linearity is assured by the amorphous head. (The C, H, and U versions feature AIWA's super hard DX head for a corresponding level of performance.) Plus, the fine bias control assures the best performance from Normal and CrO₂ tapes, with a $\pm 20\%$ range of adjustment that makes it easy to "fine tune" bias for response that sounds best to you.

Plus:

- Auto repeat playback
- Auto rewind playback
- Auto Rec-Mute
- Auto tape selector: Metal/CrO₂/Normal
- Rec/Play timer standby
- Tape counter with reset
- Headphone jack



AD-F270

Advanced Features for Extra Value

The AD-F270 combines superb features with reliable AIWA quality for an excellent audio value in a quality 2-head deck. The AD-F270 boasts many features commonly found on more expensive decks, like Dolby B and C, high-performance DX head, and fine bias control. A perfect

blend of features, fidelity and quality, the AD-F270 is an unsurpassed value in sound enjoyment.

Dolby B and C noise reduction cut tape hiss for clear, dynamic recordings. And for the best performance from Normal and CrO₂ tapes, the fine bias control on

the AD-F270 gives you a $\pm 20\%$ range of adjustment that makes it easy to "fine tune" bias for optimum response. Finally, the AD-F270 is equipped with an array of convenience features including Rec-mute functioning and timer Rec/Play for unattended recording and playback with an optional audio timer. That's your assurance of extra value.

Plus:

- Auto tape selector: Metal/CrO₂/Normal
- Tape counter with reset
- Headphone jack



FEATURE COMPARISON TABLE

	XX-009	XX-007	AD-F880/F780	AD-WX909	AD-WX808	AD-WX707	AD-WX505	AD-WX180	AD-R470	AD-F370	AD-F270
No. of heads	3	3	3	3+1	2+1	2+1	2+1	2+1	2	2	2
Amorphous alloy head	●	—	—	●	●(Both)	—	—	—	●	●	—
DX head	—	●	●	●	—	—	—	—	●(H, U and C types)	●(H, U and C types)	—
Quick reverse	—	—	—	●	●(Both)	●	—	—	●	—	—
Double cassette high speed dubbing	—	—	—	●	●	●	●	●(1/4 time)	—	—	—
Feather touch IC full logic	●	●	●	●	●	●	—	—	●	●	—
AMTS	●	●	●	—	—	—	—	—	—	—	—
Bias shield head block	●	●	●	—	—	—	—	—	—	—	—
Rec. calibration	●	●	●	—	—	—	—	—	—	—	—
PC-OCC head coil	●	—	—	—	—	—	—	—	—	—	—
Micro-grain surfaced dual capstan	●	●	●	●	—	—	—	—	—	—	—
Number of motors	3	2	2	3	2	2	2	2	1	1	1
Dolby HX Professional	●	●	●	●	●	—	—	—	●	●	—
dbx	●	●	—	—	●	—	—	—	—	—	—
Dolby C NR	●	●	●	●	●	●	—	●	●	●	●
Bias fine adjuster	●	●	—	—	●	—	—	●	—	—	—
Rec. mute	●(Auto)	●(Auto)	●(Auto)	●(Auto)	●(Auto)	●(Auto)	—	●	●(Auto)	●(Auto)	—
Tape/source selector	●	●	●	●(Auto)	—	—	—	—	—	—	—
A.D.M.S.	—	—	—	—	—	—	—	—	—	—	—
Music sensor	—	—	—	—	—	—	—	—	—	—	—
Blank skip	—	—	—	●(Both)	●(Both)	—	—	—	—	—	—
Continuous playback	—	—	—	—	●	●	●	●	—	—	—
Electronic tape counter	●	●	●	●(Dual)	●(Dual)	—	—	—	—	—	—

STEREO CASSETTE DECK SPECIFICATIONS

	XX-009	XX-007	AD-F880/F780	AD-WX909	AD-WX808	AD-WX707	AD-WX505	AD-WX180	AD-R470	AD-F370	AD-F270
POWER SOURCE	120/220/240V, 50/60Hz (H type) 240V, 50/60Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50/60Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50/60Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K type) 220V, 50Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K type) 220V, 50Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K & G types) 220V, 50Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K & G types) 220V, 50Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50/60Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50/60Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)	120/220/240V, 50/60Hz (H type) 240V, 50Hz (K & G types) 220V, 50/60Hz (E & Z types) 120V, 60Hz (C type)
DIMENSIONS (W × H × D)	469 × 136 × 432.7mm	430 × 135 × 420.7mm	430 × 126 × 317mm	430 × 126 × 316.5mm	430 × 126.5 × 318.6mm	430 × 126.5 × 318.6mm	430 × 127.5 × 231.5mm	420 × 110 × 297mm	430 × 127.5 × 233.4mm	430 × 127.5 × 233.4mm	430 × 127.5 × 234.5mm
WEIGHT	10.2kg	8.1kg	5.2kg	6.2kg	5.5kg	5.0kg	3.2kg	4.8kg	3.3kg	3.3kg	2.9kg
TRACK	4-track, 2-channel										
TAPE SPEED	1-7/8 ips (4.8cm/sec)										
FREQUENCY RESPONSE											
OVU	Normal tape 20 ~ 12,000Hz (±3dB) CrO ₂ tape 20 ~ 15,000Hz (±3dB) Metal tape 20 ~ 18,000Hz (±3dB)	20 ~ 12,000Hz (±3dB) 20 ~ 15,000Hz (±3dB) 20 ~ 18,000Hz (±3dB)	20 ~ 11,000Hz (±3dB) 20 ~ 14,000Hz (±3dB) 20 ~ 17,000Hz (±3dB)	20 ~ 11,000Hz (±3dB) 20 ~ 14,000Hz (±3dB) 20 ~ 18,000Hz (±3dB)	— — —	— — —	— — —	— — —	— — —	— — —	— — —
~20VU	Normal tape 20 ~ 20,000Hz (±3dB) CrO ₂ tape 20 ~ 21,000Hz (±3dB) Metal tape 20 ~ 22,000Hz (±3dB)	20 ~ 20,000Hz (±3dB) 20 ~ 19,000Hz (±3dB) 20 ~ 20,000Hz (±3dB)	20 ~ 17,000Hz (±3dB) 20 ~ 18,000Hz (±3dB) 20 ~ 19,000Hz (±3dB)	10 ~ 17,000Hz 20 ~ 17,000Hz (±3dB) 10 ~ 20,000Hz 20 ~ 18,000Hz (±3dB)	20 ~ 16,000Hz 20 ~ 14,000Hz (±3dB) 20 ~ 17,000Hz 20 ~ 15,000Hz (±3dB)	20 ~ 16,000Hz 20 ~ 14,000Hz (±3dB) 20 ~ 17,000Hz 20 ~ 15,000Hz (±3dB)	20 ~ 15,000Hz 20 ~ 12,000Hz (±3dB) 20 ~ 16,000Hz 20 ~ 13,000Hz (±3dB)	20 ~ 16,000Hz 20 ~ 13,000Hz (±3dB) 20 ~ 17,000Hz 20 ~ 14,000Hz (±3dB)	20 ~ 16,000Hz 20 ~ 14,000Hz (±3dB) 20 ~ 17,000Hz 20 ~ 15,000Hz (±3dB)	20 ~ 16,000Hz 20 ~ 14,000Hz (±3dB) 20 ~ 17,000Hz 20 ~ 15,000Hz (±3dB)	20 ~ 15,000Hz 20 ~ 12,000Hz (±3dB) 20 ~ 16,000Hz 20 ~ 13,000Hz (±3dB)
SIN RATIO	80dB (Dolby C, Metal, above 5kHz) 95dB (dbx, Metal)	80dB (Dolby C, Metal, above 5kHz) 95dB (dbx, Metal)	80dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	80dB (Dolby B, Metal) 80dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz) 92dB (dbx on, Metal)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)	85dB (Dolby B, Metal) 78dB (Dolby C, Metal, above 5kHz)
WOW AND FLUTTER (WRMS)	0.018%	0.025%	0.035%	deck 1: 0.055% deck 2: 0.035%	0.055%	0.065%	0.09%	0.06%	0.065%	0.065%	0.09%
FORWARD AND REWIND TIME (C-60 TAPE)	60 sec.	60 sec.	60 sec.	deck 1: 90 sec. deck 2: 60 sec.	90 sec.	125 sec.	125 sec.	90 sec.	90 sec.	90 sec.	125 sec.
HEAD	REC: Amorphous Alloy Head PB: Amorphous Alloy Head Erase: Double-gap Sendust Head	REC: Super DX Head PB: Super DX Head Erase: Double-gap Sendust Head	REC: Super DX Head PB: Super DX Head Erase: Double-gap Sendust Head	REC/PB: DX Combination Head PB: Narrow gap Amorphous Alloy Head Erase: Double-gap Sendust Head	REC/PB: Amorphous Alloy Head PB: Amorphous Alloy Head Erase: Double-gap Ferrite Head	REC/PB: Super Hard Permalloy Head PB: Super Hard Permalloy Head Erase: Double-gap Ferrite Head	REC/PB: Super Hard Permalloy Head PB: Super Hard Permalloy Head Erase: Ferrite Head	PB: Narrow gap 4-ch SH Head REC/PB: Wide gap 4-ch SH Head Erase: 2-track Ferrite Head	REC/PB: Amorphous Alloy Head (H, U and C types: DX Head) Erase: Double-gap Ferrite Head	REC/PB: Amorphous Alloy Head (H, U and C types: DX Head) Erase: Double-gap Ferrite Head	REC/PB: Super Hard Permalloy Head Erase: Ferrite Head
MOTORS	System servo motor ×1 DC motor ×2	System servo motor ×1 DC motor ×1	DC servo motor ×1 DC motor ×1	DC servo motor ×2 DC motor ×1	DC servo motor ×2	DC servo motor ×2	DC servo motor ×2	DC servo motor ×2	DC servo motor ×1	DC servo motor ×1	DC servo motor ×1
INPUT SENSITIVITY IMPEDANCE	LINE IN 50mV/47k ohms	50mV/50k ohms	50mV/50k ohms	50mV/47k ohms	50mV/47k ohms	50mV/47k ohms	50mV/47k ohms	50mV/50k ohms	50mV/50k ohms	50mV/50k ohms	50mV/50k ohms
OUTPUT LEVEL IMPEDANCE	LINE OUT 0.5V/47k ohms or higher HEADPHONE 1.5mW/8 ohms	0.5V/47k ohms or higher 1.5mW/8 ohms	0.45V/47k ohms or higher 0.8mW/32 ohms	0.36V/47k ohms or higher 0.5mW/8 ohms	0.4V/47k ohms or higher 0.5mW/8 ohms	0.39V/47k ohms or higher 0.5mW/8 ohms	0.4V/50k ohms 0.14mW/8 ohms	0.41V/50k ohms 0.8mW/8 ohms	0.36V/50k ohms 0.14mW/8 ohms	0.35V/50k ohms 0.14mW/8 ohms	0.4V/50k ohms 0.14mW/8 ohms

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